

10/593,322 11/08/2009

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NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
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=> FILE CASREACT

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'CASREACT' ENTERED AT 04:05:51 ON 08 NOV 2009

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FILE CONTENT:1840 - 8 Nov 2009 VOL 151 ISS 20

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

Uploading C:\Program Files\Stnexp\Queries\LG16.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 16 17

chain bonds :

1-2 1-6 1-7 1-8 2-3 2-4 2-5 9-10 10-11 10-12 10-13 16-17

exact/norm bonds :

1-2 1-6 1-7 1-8 2-3 2-4 2-5 9-10 10-11 10-12 10-13 16-17

G1:H,X,Cy,Ak

G2:Cl,F

G3:Br,I

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 16:CLASS 17:CLASS

fragments assigned product role:

containing 9

fragments assigned reactant/reagent role:

containing 1

containing 16

10/593,322 11/08/2009

STN: SEARCH

L1 STRUCTURE UPLOADED

=> S L1 FULL

FULL SEARCH INITIATED 04:06:30 FILE 'CASREACT'

SCREENING

SCREENING COMPLETE - 80635 REACTIONS TO VERIFY FROM 6605 DOCUMENTS

93.0% DONE 74975 VERIFIED 10420 HIT RXNS 1160 DOCS

100.0% DONE 80635 VERIFIED 10491 HIT RXNS 1176 DOCS

SEARCH TIME: 00.00.41

L2 1176 SEA SSS FUL L1 (10491 REACTIONS)

=> S L2 AND ALKALI METAL

14830 ALKALI

60778 METAL

7876 ALKALI METAL

(ALKALI(W)METAL)

L3 5 L2 AND ALKALI METAL

=> S L2 AND ALKALINE EARTH METAL

2778 ALKALINE

6774 EARTH

60778 METAL

170 ALKALINE EARTH METAL

(ALKALINE(W)EARTH(W)METAL)

L4 0 L2 AND ALKALINE EARTH METAL

=> D L3 IBIB ABS CRD 1-5

L3 ANSWER 1 OF 5 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 143:325973 CASREACT

TITLE: Method for producing fluorine-containing halide

INVENTOR(S): Sugiyama, Akinari; Ichihara, Kazuyoshi; Shinoki, Noriyuki; Mantani, Toshiya; Kondou, Masahiro

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005090270	A1	20050929	WO 2005-JP4302	20050311
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,			

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

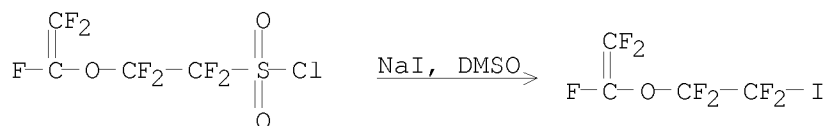
US 20070185355 A1 20070809
PRIORITY APPLN. INFO.:

US 2006-593322 20060918
JP 2004-85295 20040323
JP 2004-201299 20040708
WO 2005-JP4302 20050311

OTHER SOURCE(S): MARPAT 143:325973

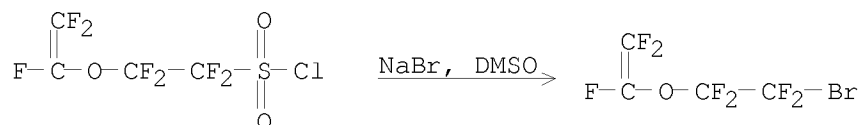
AB A method for producing a fluorine-containing halide, e.g. formula R₂C(R₁)(R₃)X (R₁, R₂, R₃ = H, halo, hydrocarbyl optionally containing 1 or ≥2 of F, O, N, and S atoms; provided that at least one of R₁-R₃ is halo; X = Br, iodo; when all of R₁-R₃ is not F, at least one of R₁-R₃ is F-containing hydrocarbyl), is characterized in that a fluorine-containing sulfonyl halide or a fluorine-containing disulfonyl chloride, e.g. formula R₂C(R₁)(R₃)SO₂Z (R₁-R₃ = same as above; Z = Cl, F; when Z is F, R₁ and R₃ are F and R₂ = CF₂:CFOCF₂), is reacted with a metal halide, a metal or the like in a solvent or without a solvent. With this method, a fluorine-containing bromide, a fluorine-containing iodide or a fluorine-containing chloride can be easily produced in a com. advantageous manner at low cost and high yield. Thus, 20.0 g CF₂:CFOCF₂CF₂SO₂Cl was slowly added dropwise to a mixture of 30.4 g NaI in 30 g DMSO at 23.0° with stirring during which the temperature rose to maximum 85° and the color of the reaction solution turned reddish brown. The reaction mixture was further stirred for 1.5 h to give ≥99.9% CF₂:CFOCF₂CF₂I, perfluoro(2-iodoethyl vinyl ether), according to ¹⁹F NMR.

RX(1) OF 5



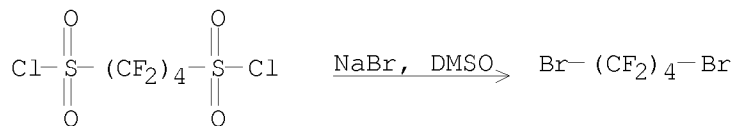
CON: STAGE(1) 23 deg C; 23 deg C -> 85 deg C; 1.5 hours, 85 deg C

RX(2) OF 5



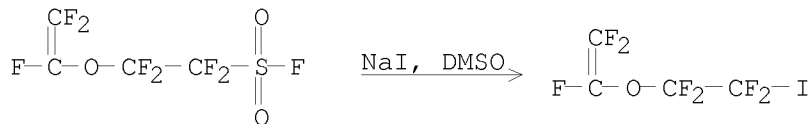
CON: STAGE(1) 23 deg C; 23 deg C -> 85 deg C; 1.5 hours, 85 deg C

RX(3) OF 5



CON: STAGE(1) 21 deg C; 21 deg C -> 85 deg C; 1.5 hours, 85 deg C

RX(5) OF 5



CON: STAGE(1) room temperature; 2 hours, 75 - 110 deg C

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 5 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 137:369764 CASREACT

TITLE: Multi-step process for the production of
(1R,5S)-bicyclo[3.2.0]heptan-3-one from
cis-1,2,3,6-tetrahydrophthalic anhydride

INVENTOR(S): Blakemore, David Clive; Bryans, Justin Stephen

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

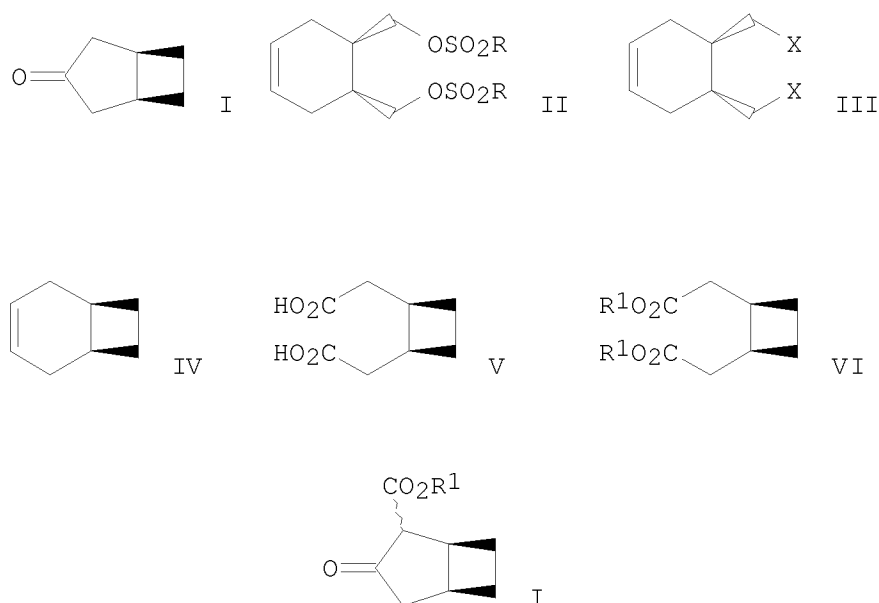
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090306	A1	20021114	WO 2002-IB1402	20020418
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
GB 2375108	A	20021106	GB 2001-10884	20010504
AU 2002253476	A1	20021118	AU 2002-253476	20020418
PRIORITY APPLN. INFO.:			GB 2001-10884	20010504
			WO 2002-IB1402	20020418

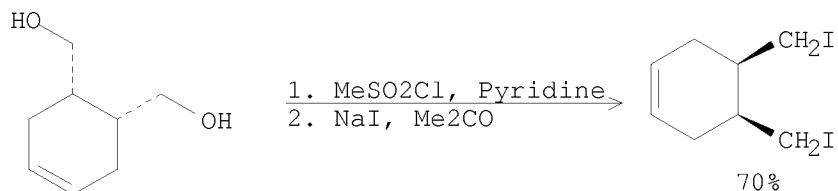
OTHER SOURCE(S): MARPAT 137:369764

GI



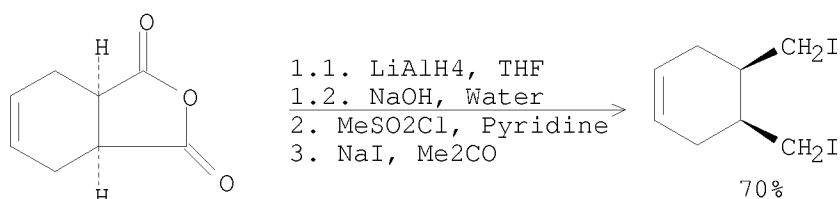
AB (1R,5S)-bicyclo[3.2.0]heptan-3-one (I) is prepared in a multi-step process via the reduction of cis-1,2,3,6-tetrahydrophthalic anhydride to form the corresponding diol which is esterified with an alkyl- or arylsulfonyl halide to form the corresponding disulfonate diester (II; R = alkyl, aryl), the disulfonate diester is iodinated or brominated with a Group IA iodide or bromide to form the diiodide or dibromide (III; X = I, Br) which is then decarboxylatively cyclized with an alkyl lithium compound to give the bicyclic alkene (IV) which is subjected to ring-opening oxidation to give the dicarboxylic acid (V) which is esterified with an alkanol R₁OH (R₁ = alkyl) to give the diester (VI) the diester is cyclized with a strong base to form the bicyclic β-keto ester (VII) which is converted into the title compound by thermal decarboxylation.

RX(10) OF 16 - 2 STEPS



NOTE: 1) alternative prepn. gave lower yields

RX(13) OF 16 - 3 STEPS



NOTE: 2) alternative prepn. gave lower yields

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 5 CASREACT COPYRIGHT 2009 ACS on STN

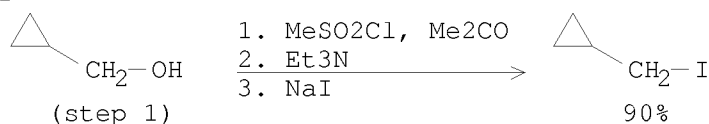
ACCESSION NUMBER: 137:201095 CASREACT
TITLE: Industrial preparation of cyclopropylmethyl iodide
INVENTOR(S): Shimanuki, Kazuhiro; Hanzawa, Sadashi; Shimazaki, Kazuhiro
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan; Koriyama Kasei Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002255867	A	20020911	JP 2001-51629	20010227

PRIORITY APPLN. INFO.: JP 2001-51629 20010227

AB The compound is prepared by mixing cyclopropylmethanol with organic sulfonyl halides in aprotic solvents, adding tertiary amines, and reacting the resulting cyclopropylmethyl organic sulfonates with alkali metal iodides and/or quaternary ammonium iodides in aprotic polar solvents. Methanesulfonyl chloride was added to acetone solution of cyclopropanemethanol, mixed with Et₃N at 10-25° for 1.5 h, and reacted with NaI at 50° for 6 h to give 90.4% cyclopropylmethyl iodide.

RX(1) OF 1



L3 ANSWER 4 OF 5 CASREACT COPYRIGHT 2009 ACS on STN

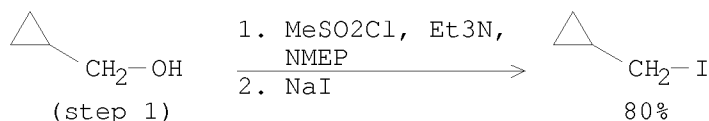
ACCESSION NUMBER: 133:207585 CASREACT
TITLE: Preparation of cyclopropylmethyl iodide
INVENTOR(S): Kasahara, Isamu; Sugawara, Mutsumi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000256230	A	20000919	JP 1999-54224	19990302
PRIORITY APPLN. INFO.:			JP 1999-54224	19990302

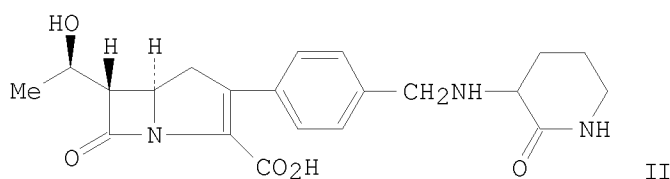
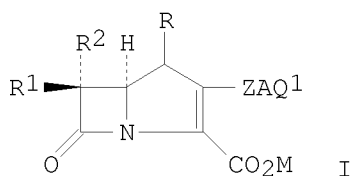
AB Title compds. are prepared by iodination of cyclopropylmethyl sulfonates with alkali metal iodides or quaternary ammonium iodides in aprotic polar solvents. Thus, cyclopropanemethanol was treated with methanesulfonyl chloride in N-methylpyrrolidone in the presence of Et₃N to give, after treatment with NaI, 80.5% cyclopropylmethyl iodide.

RX(1) OF 1



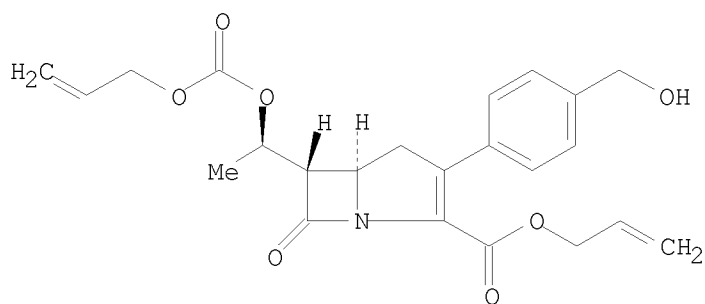
L3 ANSWER 5 OF 5 CASREACT COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 116:59078 CASREACT
 TITLE: Preparation of
 [[(heterocyclylimino)methyl]phenyl]carbapenems and
 analogs as antibiotics and antibacterial agents
 INVENTOR(S): DiNinno, Frank P.; Thorsett, Eugene D.; Salzmann,
 Thomas N.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: U.S., 18 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5037820	A	19910806	US 1990-546279	19900629
CA 2045847	A1	19911230	CA 1991-2045847	19910627
EP 465126	A2	19920108	EP 1991-305822	19910627
EP 465126	A3	19920311		
R: CH, DE, FR, GB, IT, LI, NL				
JP 06220057	A	19940809	JP 1991-256066	19910629
JP 07008868	B	19950201		
PRIORITY APPLN. INFO.:			US 1990-546279	19900629
			US 1990-594888	19901009
OTHER SOURCE(S):			MARPAT 116:59078	
GI				



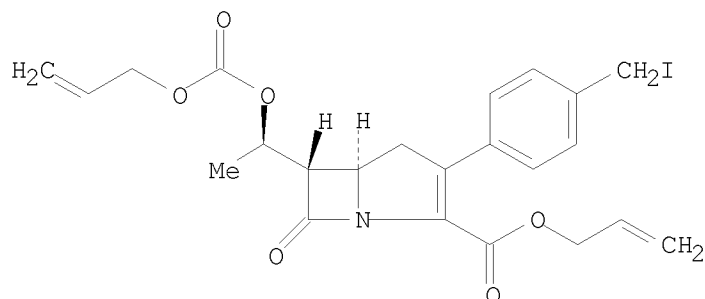
AB The title compds. [I; A = (CH₂)_mQ(CH₂)_n; M = H, alkali metal, protective group; Q = O₂C, (alkyl)imino; Q1 = (oxo)azolyl, -aziny, etc.; R = H, Me; R1, R2 = H, Me, Et, CH₂OH, MeCH(OH), etc.; Z = (un)substituted 1,3- or 1,4-phenylenediyl; m = 1, 2; n = 0-2] were prepared as antibiotics and antibacterial agents (no data). Thus, allyl (5R,6S)-2-(4-iodomethylphenyl)-6-[(1R)-(allyloxycarbonyloxy)ethyl]carbapen-2-em-3-carboxylate (preparation given) was condensed with 3-amino-2-piperidone to give, after deprotection, title compound II.

RX(14) OF 30 - 2 STEPS



1. MeSO₂Cl, Et₃N,
CH₂Cl₂
2. NaI

RX(14) OF 30 - 2 STEPS



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

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	ENTRY	SESSION
FULL ESTIMATED COST	169.05	169.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

STN INTERNATIONAL LOGOFF AT 04:12:06 ON 08 NOV 2009